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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/585,038	06/29/2006	Nels R. Smith	026032-5081	6065
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SUITE 500 3000 K STREE	T NW	OCHYLSKI, RYAN M		
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			1791	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/585,038	SMITH ET AL.			
Office Action Summary	Examiner	Art Unit			
	RYAN OCHYLSKI	1791			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on 29 Ju This action is FINAL . 2b)☑ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 18-37 is/are pending in the application 4a) Of the above claim(s) is/are withdrav 5) Claim(s) is/are allowed. 6) Claim(s) 18-37 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on 29 June 2006 is/are: a) Applicant may not request that any objection to the content of the con	vn from consideration. relection requirement. r. □ accepted or b)⊠ objected to drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
11)☐ The oath or declaration is objected to by the Ex					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 29 June 2006.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte			

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DETAILED ACTION

Drawings

- 1. The drawings are objected to because of the following informalities:
- 2. Two sets of drawings (Figures 1-28 and Figures 1-48) with non-identical content have been submitted without clear indication as to which should be considered by the Examiner. One set of drawings appears to correspond to the drawings submitted with provisional application 60/534,314 and the other set of drawings appears to have been filed as part of the PCT International Stage application process. Since the latter set of drawings comprises material not in the former set, the Examiner presumes that the latter set of drawings consisting only of Figures 1-28 are the drawings Applicant intends to be considered, and thus the drawing objections below correspond to that set of drawings.
- 3. The drawings are further objected to because of the following informalities:
- Figure 1 contains two reference characters 122 that appear to point to different
 parts; the Examiner presumes one of these is intended to be reference character
 112 since there is no corresponding Item 112 in Figure 1 as described in [0044] of
 the presumed instant specification
- No Figure appears to contain reference character 121 as recited in at least [0046],
 reference characters 152 and 154 as recited in at least [0047], or reference
 character 156 as recited in at least [0064] of the presumed instant specification

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 Figures 3 and 9 contain reference character 26 that the Examiner presumes should be 36 as per [0048] of the presumed instant specification, especially considering reference character 26 is used for a different part in at least Figure 6

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- Figure 10 does not contain reference character 30 as disclosed in at least [0078] of the presumed instant specification
- Figure 20 contains reference character 62 that does not appear to be present in the presumed instant specification
- 4. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filling date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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Specification

5. The disclosure is objected to because two specifications, each corresponding to one set of the aforementioned set of Figures have been submitted without clear indication as to which should be considered by the Examiner. Similarly to the drawings, the Examiner presumes that Applicant intends that the specification labeled with WIPO and PCT numbers is the speciation Applicant intends to be considered. Appropriate correction is required.

- 6. The disclosure is further objected to because:
- [0044] and [0045] disclose reference character 118 that is not present in the figures.

 The Examiner presumes both instance are intended to be reference character 18
- [0062] refers to "retractor 267" instead of --retractor 26--
- [0071] refers to "angled recess 36" instead of --angled recess 36a--

Claim Objections

7. Claims 27, 29, and 37 are objected to because of the following informalities: Each Claim omits the word --of-- between "The method" and "Claim" in each Claim's respective Line 1. Appropriate correction is required.

Claim Rejections - 35 USC § 112

8. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

9. Claim 37 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Specifically, Claim 37 is rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential elements, such omission amounting to a gap between the elements. See MPEP § 2172.01. The omitted elements are: the mechanism by which the injection of the third resin against the second shut-off member obscures the interface between the first resin and the second resin.

Put another way, Claim 37 recites that the interface between the first resin and the second resin is obscured by injecting the third resin so that the third resin is shaped by the second shut-off member in a particular fashion. Since the third resin and second shut-off member are not located proximate the interface between the first resin and the second resin, the Examiner considers the connection between these two portions of the claim to be vague and indefinite.

As such, while the Examiner presumes for the purposes of examination that Applicant intends the last line of Claim 37 to read --third resin-- instead of "second resin," the Examiner notes that the disclosure as filed does not appear to contain any reference to obscuring interfaces between resins without the involvement of a formed skin layer, and that as claimed, the interface between the first and third resin does not comprise formed skin. Thus, barring Applicant pointing out support in the disclosure for Claim 37 as the Examiner presumes it to read, an amendment to the Claim to bring it in line with the Examiner's presumption would comprise new matter.

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Claim Rejections - 35 USC § 103

10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 11. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 12. The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 13. The Examiner notes that provisional application 60/534,314 to which Applicants claim priority does not disclose any embodiments comprising multiple mold projections

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or multiple shut-off members, and thus such subject matter will be accorded the same filing date as that of the International Application -- namely, January 3, 2005.

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- 14. Claims 18-20, 22, and 24-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hiraiwa et al. (US 2002/0017360) in view of Mizuno (JP 2001-191361).
- 15. Regarding Claims 18-20, 22, and 27-29 Hiraiwa et al. teaches a method of making a vehicle door panel ("adapted for production of an interior door trim panel M" [0030]), the method comprising:
- providing a first mold section (Item 20), a second mold section (Item 10), a first projection extending from the first mold section toward the second mold section (Item 22), a second projection extending from the first mold section (Item 23) and a first shut-off member opposite the first projection and movable between a first position and a second position (Item 35);
- providing a first cavity defined by a first portion of the first mold section, the first projection, a first portion of the second mold section, and the first shut-off member when in the first position (the cavity in which Item 54 is present in Figure 3);
- positioning a formed skin having a first edge and a second edge, and comprising a flexible sheet and a compressible material coupled to at least a portion of the flexible sheet ("surface skin material 53 is in the form of a surface skin layer 53a such as a synthetic resin sheet ... with a foamed layer 53b such as a foamed sheet of elastic synthetic resin ... Similarly, the surface skin material 54..." [0032]; also see [0044]) in the first cavity proximate the first mold section so that the first edge of the formed

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skin extends past the first projection and so that the second edge of the formed skin extends past the second projection; (see the general configuration of Item 54 in relation to Items 22 and 23 in Figures 3 and 4, and the specific configuration of Item 54 in relation to Item 22 in Figure 5, wherein the Examiner considers an edge extending past a portion of a projection to comprise an edge extending past the projection)

- injecting a first resin, which bonds to the formed skin, into the first cavity between the formed skin and the first portion of the second mold section and between the first portion of the first mold section and the first portion of the second mold section so that an outer surface of the vehicle component is provided by the formed skin and by the first resin (as per the positioning of resin 51A/51 in Figure 4);
- moving the first shut-off member, which comprises a recess to receive the first edge of the formed skin ("lateral recess 35a" [0047]), from the first position to the second position to provide a second cavity defined by a second portion of the first mold section, a second portion of the second mold section, the first edge of the formed skin, the first resin, and the first shut-off member when in the second position (the cavity in which Item 53 is present in Figure 3 specifically the portion wherein Item 53 does not overlap with Item 54, and wherein the Examiner notes that portions defining a cavity are not necessarily portions that an injected resin must come in contact with); and
- allowing the first resin to fill the second cavity.

However, Hiraiwa et al. do not teach injecting a second resin into the second cavity and bonding to the first resin and the first edge of the formed skin.

In analogous art pertaining to vehicle trim manufacturing, Mizuno teaches injecting a second resin into a second cavity – after a first resin has been injected into a first cavity – on top of a formed skin such that the second resin bonds to both the first resin and edge of formed skin for the benefit of preventing poor molding [0029]-[0031].

Therefore, it would have been obvious to a person having ordinary skill in the art at the time of the invention to apply Mizuno to Hiraiwa et al. such that the first edge of Hiraiwa et al.'s formed skin 54 is placed on top of Hiraiwa et al.'s formed skin 53 and, instead of allowing the first resin to fill the second cavity, a second resin is injected into the second cavity to bond to both the first resin and edge of formed skin for the benefit of preventing poor molding that may result from the shut-off member of Hiraiwa et al. opening too soon and allowing the formed skins to come apart slightly.

16. Regarding Claim 24, while this hypothetical combination does not expressly teach that the first resin at least partially solidifies before the second resin is injected, the Examiner considers that since Mizuno shows in Figure 9 that after retracting shut-off member 31, the resin 53 stays in place, a skilled artisan would be motivated to ensure that the first resin is at least partially solidified when the second resin is injected in order to best apply Mizuno to Hiraiwa et al. to prevent poor molding that might occur if the formed skin did not have partially solidified resin to hold it in place.

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17. Regarding Claims 25 and 26, Hiraiwa et al. teach the "substrate 51 of the trim panel is covered with a soft touch surface skin..." [0051], a disclosure that the Examiner takes to indicate that the formed skin is positioned in an area of the vehicle component that may be interfaced by a user and partially provides an "A" surface of the vehicle component, since the Examiner further considers that Hirwaiwa et al. would not be concerned with the appearance of the formed skin seam unless the formed skin was part of an "A" surface, and that Hiraiwa et al. would also not be concerned with a very soft touch surface skin, unless the surface skin was intended to be interfaced by a user.

- 18. Regarding Claims 30-34 Mizuno is silent on the relationship between the two injected resins. Thus given that when injecting a resin in two different places, each of the two portions of resin used must be either the same resin or a different resin, and either the same color or a different color a skilled artisan would have found it obvious to try all four of the limited options with respect to resin identity and resin color, particularly since one resin portion would likely remain hidden from view by the formed skin so that the resin could be chosen completely based on non-visual performance attributes, and the other resin portion, since it would not be hidden entirely from view by the formed skin, would be chosen with visual performance attributes in mind.
- 19. Claim 21 (as applied to Claim 20 above) and Claims 35-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hiraiwa et al. (US 2002/0017360) and Mizuno (JP 2001-191361), and further in view of Ae et al. (JP 2002-187166).

20. Regarding Claim 21, the previous combination teaches the general method as applied above, but does not teach injecting a third resin into a cavity containing a third projection and a second shut-off member.

In analogous art pertaining to vehicle trim manufacturing, Ae et al. teach adding a third part to a two-part trim molding (as in Figure 6) for the benefit of providing an integral multi-color article (as per the Abstract).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time of the invention to apply Ae et al. to the previous combination by essentially duplicating the first projection, first shut-off member, and second cavity into a third projection, second shut-off member, and third cavity on the opposite side of the mold and injecting a third resin into the third cavity that would bond to the first resin for the benefit of providing an integral multi-color trim part.

- 21. Regarding Claims 35 and 36, the hypothetical combination as applied above to Claims 18-21 meets all the limitations of Claim 35, since Claim 35 is essentially Claim 21 rewritten as an Independent Claim and Claim 36 is identical to Claim 19 except for its dependency.
- 22. Regarding Claim 37, Hiraiwa et al. teach in Figures 15-17 (wherein for the purposes of the discussion below, the top of each respective figure coincides with the respective Fig. 15, Fig. 16, and Fig. 17 text on the drawing sheet) that a second member capable of acting as shut-off member comprises

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a forward surface (the protruding portion 36a),

- a first side surface (the bottom surface of the member),
- a second side surface that shares an edge with the forward surface (the top surface of the member),
- and an angled surface that extends between the forward surface and the first side surface (the flat-angled portion between 36a and the bottom surface);
- and wherein, if that member were to be used as the second shut-off member (in conjunction with a protrusion like Item 23) for the hypothetical combination as applied to Claim 35 above, the step of injecting a third resin would comprise forming an angled recess in the molded article having an upper surface provided by the angled surface of the second shut-off member and provided at a sufficiently flat angle relative to vertical by the angled surface of the shut-off member to obscure the interface between the first resin and the third resin from an occupant of the vehicle interior.

A skilled artisan would be motivated to use the second member as claimed, since an explicit intent of the production method recited by Hiraiwa et al. (as per the Abstract) is to make it so "each boundary line of the different portions is hidden in a groove or valley provided in the substrate of the trim component."

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23. Claim 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hiraiwa et al. (US 2002/0017360) and Mizuno (JP 2001-191361) as applied to Claim 18 above, and further in view of Dailey et al. (US 6,248,200).

24. Regarding Claim 23, the previous combination teaches the general method as applied above, but does not teach that the formed skin comprises a flexible sheet and a compressible material coupled to a portion of the flexible sheet, and wherein the step of injecting the first resin into the first cavity and bonding to the formed skin comprises injecting the first resin into the first cavity and bonding to the flexible sheet and to the compressible material to provide a first compressible region where the first resin is bonded directly to the skin and a second compressible region where the first resin is bonded directly to the compressible material.

In analogous art pertaining to vehicle trim manufacturing, Dailey et al. teach a formed skin comprising a flexible sheet and a compressible material coupled to a portion of the flexible sheet, and wherein a step of injecting a resin into a cavity and bonding to the formed skin comprises injecting the resin into the cavity and bonding the resin to the flexible sheet and to the compressible material to provide a first compressible region where the first resin is bonded directly to the skin and a second compressible region where the first resin is bonded directly to the compressible material for the benefit of providing a relatively soft integral arm rest pad in trim panel assembly (Column 3 Lines 16 – Column 4 Line 4).

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Therefore, it would have been obvious to a person having ordinary skill in the art at the time of the invention to combine Dailey et al. with the previous combination for the benefit of providing a relatively soft integral arm rest pad in trim panel assembly.

Double Patenting

25. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to

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be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

26. Claims 18-22 and 24-37 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over Claims 38-62 of copending Application No. 10/569,225 in view of Hiraiwa et al. (US 2002/0017360) and Mizuno (JP 2001-191361). While '225 does not claim a formed skin, the combination of Hiraiwa et al. and Mizuno teaches a formed skin as claimed in the instant application, as applied in the rejections above.

Claim 23 (as applied to Claim 18 above) is provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over Claims 38-62 of copending Application No. 10/569,225 in view of Hiraiwa et al. (US 2002/0017360) and Mizuno (JP 2001-191361) and further in view of Dailey et al. (US 6,248,200) – see the rejection of Claim 23 above.

This is a <u>provisional</u> obviousness-type double patenting rejection.

Conclusion

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27. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

 Gajewski et al. (US 5,618,485) cites a method of making a three-shot injection molded vehicle trim panel.

28. Any inquiry concerning this communication or earlier communications from the examiner should be directed to RYAN OCHYLSKI whose telephone number is 571-270-7009. The examiner can normally be reached on Monday through Thursday and every other Friday from 9:00-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Del Sole can be reached on 571-272-1130. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

30.

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31. Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

rmo

/Joseph S. Del Sole/ Supervisory Patent Examiner, Art Unit 1791